

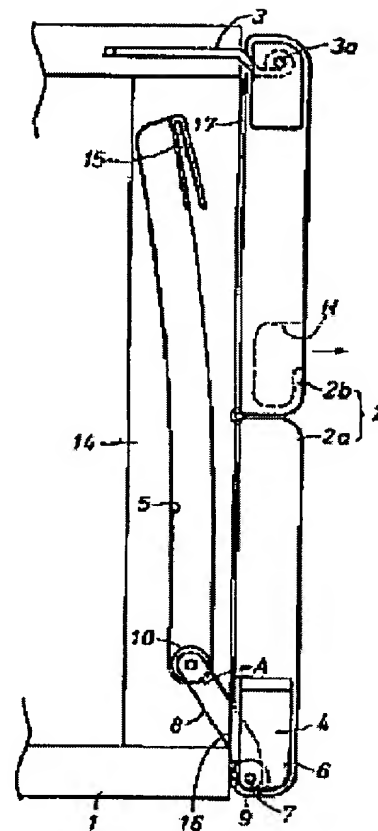
OPENING/CLOSING MECHANISM FOR FOLDING DOOR

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Abstract of JP6248842

PURPOSE: To improve usability by a method wherein a moving end during opening of a folding door is separated away from an opening surface and the opening angle of the folding door is increased by specifying the moving locus of the moving end of a folding door through engagement of a roller at the arm free end of a moving body with a guide groove. **CONSTITUTION:** A support end is pivotally mounted on one side edge of an opening, a moving end is moved along an opening through a roller 10 engaged with a guide groove 5, and a folding door 2 is folded back for folding double to open a door. In this case, rollers 9 and 10 are arranged to the free end of an arm 8 pivotally mounted on a moving body. Further, in a guide groove 5 during opening of the door, a tongue piece 15 is resiliently deformably arranged to an end part on the side where the rollers 9 and 10 are positioned in a direction in which the width of the groove 5 is increased. Thus, the moving ends of door plates 2a and 2b are separated away from the guide groove 5 to the outside and the opening angle of the door 2 is increased. A rotation moment in a door closing direction is exerted on the hinge mounting parts of two door plates 2a and 2b folded back during full opening, and a press force is exerted on the rollers 9 and 10. This constitution causes application of a component of a force in a door closing direction on the moving ends of the door plates 2a and 2b by means of a reaction force and development of the door 2.



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